Arnold, J. R.
Nevada: Nye Co.
1933

Zoology Field Class, (summer) June 29 - Aug. 2 1933
Nevada: Nye County

Arnold, J.

For map of localities
see notes
of

E. Raymond Hall
summer 1933

Arnold - 1933

Catalogue

Mammals
Birds, etc.

Toquima Range, 1 mi. E Jefferson, 7600 ft., Nye Co., Nevada.

June 29 1933

~~99.~~

99. ♀ Perognathus parvus 160 - 91 - 24 - 9 - 14.9 grams
col. by E.R. Hall

~~100.~~

Sierra Nevada Mtns, 38 mi. E Colfax, California. Main Highway.

June 27, 1933.

✓100. ♂ Sphyrapicus ruber

Toquima Range, 1½ mi. E. Jefferson, 7750 ft., Nye Co., Nevada.

June 29 1933

101. ♀ Callospermophilus l. trepidus
215 - 95 - 36 - 19 wt 82.6 grams

102 ♀ Sylvilagus m. grangeri
ear - 66 - hind foot 94

103 ♀ ♂ Eutamias m. pictus
180 - 80 - 29 - 14 wt 37.6 grams

June 30, 1933

104 ♂ Perognathus parvus
185 - 106 - 26 - 9 wt 22.9 grams

105 ♀ Peromyscus g. sonoriensis
161 - 68 - 20 - 18 wt 22.8 grams.

Toquima Range, 1 mi. E Jefferson, Nye Co., Nevada. 7600 ft. elev.

June 29, 1933

1106 ♀ Spizella socialis arizonae wt 11.2 grams
Col. by F. C. Gale

Toquima Range, 1 mi NE Jefferson, 7650 ft., Nye Co., Nevada.

June 30, 1933

107 ♂ Peromyscus crinitus col. by F. C. Gale
168-88-20-18 wt 17.9 grams.

Toquima Range, 1½ mi. E. Jefferson, 7700 ft., Nye Co., Nevada.

June 30, 1933

108. ♂ Eutamias
205-77-31-17 wt 60.7 grams

skull missing
109. ♂ Myotis
90-40-9-12 wt 6.9 grams

July 1, 1933.

110. ♀ Microtus mordax 2 embryo in right horn 20 mm
3 " " left
ear & nose eaten by ants.
185-59-22-15 wt 50.6

111. ♂ Microtus mordax
180-63-22-15 wt 46.9

112. ♀ Perognathus parvus
176-100-24-8 wt 19.1 grams.

113 ♂ Perognathus parvus
197-105-24-9 wt 20.3

July 2, 1933

1114 ♂ Spotted Towhee 35.4 grams - ~~badly shot up~~

Arnold-1933

Toquima Range, N slope Toquima Mtn., 9400 ft., Nye Co., Nevada.

July 2, 1933

115 ♂ Eutamias m. pictus
183-89-28-15 wt 36.8 grams

116. ♂ Eutamias quadrivittatus
202-89-33-18 wt 58.7 grams

117 ♂ Callospermophilus
260-95-37-19 wt 167.1 grams

Toquima Range, SW slope Jefferson, 10,000 ft., Nye Co., Nevada

July 2, 1933

118 ♀ Callospermophilus col. by Paul T. Wilson
235-84-37-18 wt 145.8
discard liver - spotted

Toquima Range, S.W slope Jefferson, 9500 ft.

July 2, 1933

119 ♂ Ochotona col. by F. C. Gale
170-.7-30-23 wt 118.4 grams

Toquima Range, 1 mi. E Jefferson, 7600 ft., Nye Co., Nevada.

✓120. ♂ Zenidura macroura marginella
wt 113.6 grams.

✓121. ♂ Black-headed Grosbeak 47.1 grams

Arnold-1933

122 ♂ Eutamias

195-85-29.15 wt 37.7

July 5, 1933 Toquima Range, 1 mi E Jefferson, 7600 ft., Nye Co., Nevada.

✓123 Passerella iliaca nestling 8.3 grams
Preserved

✓124 P. iliaca " 12.4 "
preserved

✓125 P. iliaca " 10.6 "
preserved

✓126 P. iliaca nestling in snakes mouth
preserved

127 Water snake with young For Sparrow in mouth.
preserved

✓128 ♀ Passerella iliaca wt

✓129 ♂ P. iliaca wt 26.9 grams.

Toquima Range, ~~1 mi~~ SW slope Jefferson Peak, 8700 ft., Nye Co., Nev.
July 5, 1933.

130. ♀ Ochotona

168-14-29-24 wt 140.9 grams.
♀ with mammary glands developed for living young.

Monitor Valley, 10½ mi E Toquima Mtn., 6900 ft., Nye Co., Nevada.
July 7, 1933

131. ♀ Microdipodops

152-76-25-9.5 13.2 g

132 ♂ Microdipodops

160-88-26-8.5 13.7 g

~~132~~

Arnold-1933

Monitor Valley, 9 mi. E Toquima Mtn., 7000 ft., Nye Co., Nevada.

July 7, 1933

133. ♂ Dipodomys ordii col. by Paul T. Wilson
O - 135 - 40 - 16 57.7 g

134 ♂ Dipodomys ordii col. by Paul T. Wilson
225 - 125 - 40 - 15 43.6 g.

135 ♂ Peromyscus m. sonoriensis col. by Paul T. Wilson
155 - 68 - 20 - 19 20.6 g

136 ♀ Peromyscus m. sonoriensis col. by Paul T. Wilson
150 - 64 - 20 - 19 23.2 g. embryo 2 - right = 15 mm 3 - left

137. ♀ Microdipodops col. by Paul T Wilson
160 - 87 - 26 - 9
11.1 g.

138 ♀ Perognathus parvus
170 - 90 - 24 - 8.5 wt 18.4 g.

✓139 ♀ Killdeer wt 85.2 grams

✓140 juv Killdeer wt 18.4 grams.

July 8, 1933

Monitor Valley, 8 mi. E Toquima Mtn., 7100 ft., Nye Co., Nevada.

141. ♂ Perognathus parvus col. by Ole Lilleland
160 - 85 - 23 - 9.5 wt 17.5

142. ♀ Peromyscus m. sonoriensis col. by Ole Lilleland
153 - 76 - 20 - 19 wt 23.4

143. ♀ Microtus mordax col. by Ole Lilleland
185 - 65 - 21 - 16 wt 53.4
5 embryo - 3 in right, 2 in left 6 mm

Arnold-1933

July 8, 1933

144. ♀ Peromyscus crinitus col. by Paul T. Wilson
175-91-20-19 wt 16.2 g.

Ralston Valley, 15½ mi. NE Tonopah, 5800 ft., Nye Co., Nevada
July 9, 1933.

145. ♂ Peromyscus m. sonoriensis
140-57-20-18

146. ♂ Dipodomys ordii
220-125-40-13

147. ♂ Dipodomys levipes col. by Wm. B. Davis
270-161-44-16

148. ♀ Dipodomys levipes col by Wm. B. Davis
290-170-44-17

Hot Creek Range, 8 mi. W Tybo, 6700 ft., Nye Co., Nevada
July 10, 1933

149 ♀ Peromyscus truei
177-85-24-26 wt 28.4 g

150. ♂ Perognathus parvus
166-86-22-8 wt 14.6 g

151 ♀ Peromyscus crinitus
167-91-21-20 wt 15.4 g

152 ♀ Neotoma lepida lepida
231-100-29-28 wt 77.3 g

decolorin
153 Uta (lizard

Arnold 1933

Hot Creek Range, 8 mi. W Tybo, 6700 ft., Nye Co., Nevada.

July 9, 1933

✓ 154. ♂ Black-throated Gray Warbler 8.4 grams.

✓ 155. ♀ Wright Flycatcher col. by Wm Davis 11.9 grams.

July 10, 1933

156. ♂ Eutamias dorsalis

205 – 91 – 32 – 21 wt 52.7 g.

157 ♂ Eutamias quadrivitatus

211 – 95 – 33 – 16 wt 52.3 g.

✓ 158. ♂ Ash-throated Flycatcher wt 28.1 g.

✓ 159. ♀ Ash-throated Flycatcher col. by Wm Davis wt 28.0 g.

July 10, 1933 [Hot Creek Range, 7 mi W Tybo, 7000 ft, Nye Co. Nev.]

160. ♂ Myotis evotis

63 – 41 – 10 – 21 – 12 Tr. wt 5 g.

161 ♀ Myotis 1 embryo 20 mm fully formed

96 – 42 – 8 – 14 – 8 Tr wt 7.9 g

162 ♀ Myotis

60 – 38 – 8 – 14 – 8 Tr. wt 4.6 grams

✓ skeleton 163 ♂ Spotted Towhee wt 32.9 g. col. by Ole Billeland

alcoholic 164 ♂(?) scelaporus

July 11, 1933.

alcoholic 165 scelaporus

Arnold-1933

Monitor Range, Greenmonster Canyon, 7500 ft., Nye Co., Nevada.

July 11, 1933

166. ♀ Eptesicus fuscus lenbly. 29 mm
122-48-13-18-13g. 21. ograms.

July 12, 1933

167. ♀ Peromyscus m. sonoriensis
159-63-20-19 wt 23.4 g.

168. ♂ Peromyscus crinitus
170-90-21-20 wt 16.3 g.

July 12 1933

✓169. ♂ Lazuli Bunting. wt 16.1 g. Col. by Wm Davis
Fish Spring Valley, 2 mi. N Fish Lake, Nye Co, Nevada.

July 11, 1933

✓170. ♂ Centrocercus urophasianus
wt (without heart) 1777.3 grams

✓171. ♂ C. urophasianus 1899.5 g.
Monitor Range, Greenmonster Canyon, 7500 ft., Nye Co, Nevada

July 12, 1933

172 ♀ Eptesicus fuscus
115-52-11-17.9a. 17.3 grams.

✓173. ♂ Violet-Green swallow wt 15.2. Col. by Wm Davis.

July 13, 1933

174. ♂ Callospermophilus
221-91-37-18 85.1 grams

✓175. Song Sparrow. wt 20.3 grams

Arnold - 1933

Monitor Range, Greenmonster Canyon
7500 ft., Nye Co., Nevada.
July 13, 1933

✓176. ♂ juv. Wn. Robin wt 68.8 g.
✓177. ♂ br. Hammond (?) Flycatcher wt 11.2 g
July 14, 1933.
7600 ft.
178. ♂ Thomomys 188-55-25-6 wt 87.9 g.
8600 ft.
179. ♀ Eutamias-180-61-29-14 wt 41.9 g.
7500 ft.
180. ♀ Eptesicus fuscus 1 embryo 29 mm.
125-52-11-18.5-9.54 wt 22.2 grams
820. ft July 15, 1933
181. ♂ Ochotona 155-9-28-23 wt 112.6 grams.
July 14, 1933
9000
✓182. ♀ Vireo, wn Warbling 12.1 grams
✓183. ♀ Audubon Warbler 11.1 gr
✓184. ♂? Brewer Sparrow 10.1 grams
✓185. ♂ Chipping Sparrow 11.3 g.
~~186 Vireo, wn Warbling wt 11.7 g.~~
✓186 ♀ Junco wt 18.8 grams
Fish Spring Valley, Fish Lake, 6500 ft.,
Nye Co., Nevada July 16, 1933
✓187. ♂ Circus hudsonicus wt 298. grams.
✓188 A. sandwichensis wt 15.3 grams
col. by E.R. Hall

Arnold-1933

Fish Spring Valley, Fish Lake, 6500 ft., Nye Co., Nevada:

July 16, 1933

✓189. ♀ Clangula col. by E.R. Hall wt 750.9

July 18, 1933

Hot Creek Valley, 2-10 mi. N Hot Creek, 5900 ft., Nye Co., Nevada:

190. Chemidophorus

Fish Spring Valley, Fish Lake, 6500 ft., Nye Co., Nevada:

July 16, 1933

✓191. ♂ alcoholic Amphispiza nevadensis wt 11.1 grams

Hot Creek Valley, ¼ mi. W Hot Creek, 5900 ft., Nye Co.,

July 19, 1933

192. ♂ Peromyscus m. sonoriensis

162-73-22-18 wt 20.7 grams

Hot Creek Valley, 2-10 mi. N Hot Creek 5900 ft., Nye Co., Nevada.

July 18, 1933

193. Platyrhinus

194. Phrynosoma ~~platyrhinos~~

195. P. platyrhinos

196. P. platyrhinos.

Arnold-1933

Hot Creek Valley, 2-10 mi. N Hot Creek, 5900 ft, Nye Co, Nevada
July 18, 1933.

197. Phrynosoma platyrhinos
198. P. platyrhinos
199. P. platyrhinos.

Hot Creek Valley, ¼ mi. W Hot Creek, 5900 ft., Nye Co., Nevada. July 19, 1933

200. Bufo

Ralston Valley, 3 4 mi. E + 1 mi. N Tonopah, 5650 ft, Nye Co, Nevada.
July 19, 1933 Col. by W.C. Russell

201.	♂	Dipodomys deserti	309-185-52-18	
202.	♂	" ordii columbianus	235-130-39-14.	
203.	♀	" levipes	272-161-43--	
204.	♀	" "	266-153-43-15	
205.	♀	" "	244-135-41-15	
206.	♂	Onychomys	120-39-20-20	
~~207~~		~~"~~	~~140-20-19~~	

Hot Creek Valley, 3½ mi. E Hot Creek, 5650 ft., Nye Co., Nevada.
July 20, 1933.

207.	♀	Microdipodops	152-84-24.5-10.5	wt 12.3 g
208.	♂	Perognathus nevadensis	123-69-19-7.5	wt 5.8 gram
209.	♂	" "	132-72-19-7	wt 7.6 gram

Arnold-1933

Hot Creek Valley, 3½ mi. ~~E~~ E Hot Creek, 5650 ft., Nye Co., Nevada

July 20, 1933

210. ♂ Dipodomys ordii columbianus 242-146-40-15 wt 47.2

211. ♂ D. levipes 271-158-43-15 wt 71.8

212. ♂ D. " 277-164-43-15 69.4

213. ♂ D. " 270-154-42-15 wt 71.7 grams.

Hot Creek Valley, Hot Creek, 5900 ft., Nye Co., Nevada.

July 19, 1933

✓ 214. ♂ Blackbird, Brewer - wt. 71.9 grams

Hot Creek Range, 4 mi. N Hot Creek, 6400 ft., Nye Co., Nevada:

July 21, 1933

215. ♀ Neotoma l. lepida 296-131-41-29 wt 149.7 grams

216. ♀ Neotoma l. lepida 298-130-31-30 wt 130.3 "

217. ♀ Peromyscus m. sonoriensis 164-78-19-18 wt 25.4 "

218. ♂ " crinitus 168-91-19-20 wt 17.9 "

219. ♂ " m. sonoriensis 156-71-20-18 wt 24.8 "

220. ♂ " " " 161-70-20-18 wt 18.3 "

221 ♀ " " " 157-68-21-18 wt 21.2 "

alcoholic 222 Scelaporus

alcoholic 223 uta

Arnold-1933

N End Reveille Valley, Old Mill, 6200 ft., Nye Co., Nevada.
July 22, 1933

224. ♂ Microdipodops 157-81-24.2-10 12.4 grams
225. ♂ " 152-82-23-9 10.7 "
226. ♀ " 150-77-24-11 14.6 "
227. ♂ " 159-78-24.8-10.5 12.1 "
228. ♀ " 153-81-24-9.9 11.7 "
229. ♂ " 155-82-24.8-11 wt 12.7 "
230. ♀ Peromyscus m. sonoriensis 146-65-20-18 - wt 14.3 "
231. ♂ Dipodomys levipes 274-161-42-15 - wt 69.2 "

Railroad Valley, 3 mi. S Nyala, 5600 ft., Nye Co., Nevada.
July 23, 1933.

232. ♀ Dipodomys levipes 271-159-42-14 - wt 61.8
233. ♀ Peromyscus m. sonoriensis 165-66-19-18 wt 20.3
234. ♂ Perognathus nevadensis 129-69-~~20~~ 19-8 wt 6.5
alc 235. Uta
alc 236. Phrynosoma platyrhinos
alc 237. " "
alc 238. Sceloporus col. by E. R. Hall.

Quinn Canyon Mtns., Big Creek, 5800 ft., Nye Co., Nevada.
July 23, 1933

239 ♀ Myotis 90-45-8-16-11th wt 4.5 grams

July 24, 1933

240. ♂ Perognathus formosus 193-107-25-11.5 wt 22.3 grams
241. ♂ " " 201-116-25-11.5 wt 19.9 "

Arnold-1933

(Arn) July 24, 1933

242. ♂ Perognathus formosus 184-109-25-11 wt 7.1 grams
243. ♀ " " 186-110-24.5-12 wt 19.2 "
244. ♀ Peromyscus crinitus 180-97-19-21 wt 17.7 "
245. ♂ " " 174-90-19-20 wt 12.8 "
246. ♀ " " 160-86-19.5-20 wt 12.9 "
247. ♂ " " 166-86-20-20 wt 15.7 "
248. ♀ " " 167-87-20-20 wt 11.9 "

Railroad Valley, 9½ mi. E New Reveille, 5100 ft., Nye Co, Nevada

July 25, 1933

249. ♀ Dipodomys levipes 266-163-41-15 wt 51.8 grams
250. ♀ Perognathus nevadensis 139-76-19-8 wt 7.3 "
251. ♀ Dipodomys levipes col. by O. Lilleland 268-156-42-15 wt 63.1 "
252. ♂ Peromyscus m. sonorensis col. by O. Lilleland 131-59-19-18. wt 10.9 "

Railroad Valley, 2 mi. NE Nyala, 5100 ft., Nye Co, Nevada.

July 25, 1933

col. by W. E. Russell

253. ♀ Dipodomys m. levipes 278-166-41-15
254. ♂ " " " 268-161-42-16 "
255 ♂ " " " 289.-171-44-16 "

Quinn Canyon Mtns. Burned Corral Canyon, 6700 ft., Nye Co, Nevada.

July 25 1933

✓ 256. ♀ Carpodacus cassini (?) wt 25.5 grams

July 26, 1933

257. ♀ Microtus mordax 156-49-20-14 wt 30.6 grams

Arnold-1933

Quinn Canyon July 26 (con.)

258 ♂ Peromyscus truei 183-92-23-27.5 wt 20.2
259. ♀ " m sonoriensis 152-62-20-19 wt 24.9
260. ♂ " " " 163-65-19-18 wt 15.1
261. ♀ " " " 154-69-20-18 wt 20.7
262. ♂ " " " 152-64-20-18.5 wt 17.6
263. ♀ " " " 161-72-21-18. wt 21.5

Quinn Canyon Mtns. Burned Corral Canyon, 6700 ft, Nye Co, Nevada:
July 27, 1933

264. ♂ Eutamias dorsalis 199-94-32-21 wt 46.7
265 ♀. " " 181-65-32-21 wt 52.6
266. ♀ " quadrivittatus 206-83-31-19 wt 60.1
267 ♂ Callospermophilus 249-96-37-19 wt ~~108.9~~ 109.9
~~268. ♀ Peromyscus truei~~ 3 embryos ~~x 26 mm~~ ~~210-106-23-29~~ Utah Univ. ~~wt 39.2~~
269. ♂ " " 192-94-23-25 wt. 23.0
270. ♂ Perognathus parvus 168-91-23-10 wt. 16.9
skull only
271. ♀ juv " " 141-80-22-9 wt. 10.4
272. ♂ Peromyscus m sonoriensis 149-65-20-20 wt. 19.5

July 26, 1933

✓ 273. ♂ Pipilo m. curtatus wt 47.7 grams
✓ 274. ♂ Psaltriparus m. plumbeus wt. 5.9 "
275. Sceloporus
276. "
277. "

Arnold-1933

Quinn Canyon Mtns; Burned Corral Canyon, 6800 ft; Nye Co, Nevada: July 28, 1933.

278. ♀ Eutamias dorsalis 175 (51) - 31 - 21 wt. 59.0
279. ♀ " " 206 - 91 - 32 - 21 wt. 46.6
✓280. ♀ Piranga ludoviciana wt. 29.9
✓281. ♂ Pipilo m. curtatus wt. 37.4
✓282. ♂ Parus gambeli wt. 12.3

6700 ft., July 28, 1933

✓283. ♂ Carpodacus cassini wt. 25.6
✓284. ♀ Nucifraga columbiana wt. 127.4

Quinn Canyon Mtns., Burned Corral Canyon, 6800 ft; Nye Co, Nevada: July 29, 1933.

285. ♂ Peromyscus truei 182 - 88 - 23 - 28 wt. 21.6
286. ♂ Microtus mordax 152 - 55 - 21 - 14 wt. 25.8
287. ♀ ~~Peromyscus crinitus~~ Reithrodontomys megalotis 130 - 69 - 17 - 16 wt. 9.5
288. ♂ " m. sonoriensis 153 - 68 - 19 - 18 wt. 18.9
289. ♀ " " " 160 - 63 - 20 - 20 wt. 24.9
290. ♂ " " " 157 - 72 - 21 - 18 wt. 16.0
291. ♀ " " " 164 - 68 - 20 - 20 wt. 23.1
292. ♂ " " " 147 - 68 - 20 - 19 wt. 19.6
293. ♀ " " " 169 - 71 - 20 - 19 wt. 20.2
294. ♀ " " " 170 - 69 - 20 - 20 wt. 23.9
✓295. ♂ Pipilo m. curtatus wt. 38.8 gm
✓296. ♂ Dendroica nigrescens wt. 7.9 gm

Arnold-1933

Quinn Canyon Mtns., 7 mi. E Nyala, 7000 ft., Nye Co., Nevada.

July 30 1933

297. ♀ Peromyscus crinitus 177-91-20-20 wt. 14.6

298. ♂ " " 158-82-19-20 wt. 11.5

299. ♀ Eutamias quadrivittatus 214-95-32-18 wt 56.8

300 ♂ " " 210-94-31-18 wt. 57.0

Quinn Canyon Mtns, Burned Corral Canyon, 6800 ft, Nye Co, Nev.

July 28, 1933

skeleton.
301. ♂ Pipilo m. curtatus wt 37.8 gram.

Quinn Canyon Mtns, Head of Burned Corral Canyon, 7800 ft, Nye Co, Nevada:

July 29, 1933.

302. ♀ Sitta c. nelsoni. wt. 16.9 gram.

Quinn Canyon Mtns., Burned Corral Canyon, 6700 ft., Nye Co, Nevada.

July 30, 1933

303. lot. of 8 Scapiopus jun.

304. ♀ Myotis ? sp. 81-41-7-16-10 wt. 5.1

Quinn Canyon Mtns., 7 mi. E Nyala, ~~7000~~ 6700 ft, Nye Co., Nevada.

July 31, 1933

305. ♂ Eutamias inopinatus 175-80-29-15 wt. 28.4

306. ♀ " " " 181-81-29-16 wt. 39.6

307. ♀ " dorsalis 215-95-32-21 wt. 55.3

Arnold-1933

Quinn Canyon Mtns., 7 mi. E Nyala, 6700 ft., Nye Co, Nevada.

July 31, 1933.

✓308. ♀ Polioptila wt. 5.1

✓309. ♂ Salpinctes obsoletus wt. 15.7

✓310. ♂ Spizella breweri wt. 11.6

Arnold - 1933

General Notes + Itinerary

June 29, 1933

Day before yesterday left Berkeley at 9:15 a.m. in company with Wm B. Davis, Stephen D. Durant, Francis C. Gale Jr, Frank W. Gorham, R. Raymond Hall, Ole Lilleland, Ward C. Russell, Paul T Wilson. Traveled in 3 motor vehicles, 2 trucks and 1 car, via Carquinez bridge to Davis, Sacramento, Roseville, Auburn, Truckee, and Reno. Made overnight camp along main highway 8 miles east of Reno. Left this camp 5:20 AM, June 28, and drove via Fallon, East Gate, Austin, Millett, Round Mtn., to a point in Jefferson canyon ½ mile East of Jefferson 7600 ft. elevation in the Toquima Range, Nye Co., Nevada. Pitched camp at 6:30 P.M. beside stream. While enroute June 27 collected a Red-breasted Sapsucker 38 miles east of Colfax elev. ca 6500.

Notes June 28 (Copied from car notebook)

Saw 2 cormorants in Truckee R.

Arnold - 1933

June 29, 1933 (con) 19 miles east of Reno. 5:40 A.M.
Saw B.b. magpie 26 m. E. Reno.
Saw gull in road (Calif. or Ring billed)
39 miles miles from Reno on
Wadsworth Rd.
In a large marsh 8 miles
north west of Fallon, the
following birds were observed.

35 + Avocets (probably 1-200)
10 Pied-billed grebes.
4 Am. eared grebes.
30 + Yellow-headed Blackbirds.
4 Coots
2 Canvas-backed Ducks
5 Killdeer
3-10 unknown dark duck-like birds
3 ? sandpiper ?

5 miles east Fallon saw
1 male valley quail. 5/29/33
10 miles east Fallon saw
a sage thrasher 100 ft from
road in greasewood.
12 miles east Fallon 5 glossy
ibis near road.

June 29 - 5. P.M. set 55 government mice
traps and 4 wooden rat traps
in dry wash (middle fork of
Grass creek) 1 ½ miles East of

Arnold-1933

June 29, 1933 (con) Jefferson, 7700 ft. elevation, Nye Co., Nevada. Previously the same afternoon shot 1 Callospermophilus, 1 Eutamias, and 1 Sylvilagus in same region. [See Catalogue].

June 30, 1933. From total of 59 traps took only 1 Perognathus parvus and 1 Peromyscus m. sonoriensis. One trap was missing and only 2 others touched. Other members of the party working near water had better results. Put up these skins, some others, and 1 chipping sparrow taken by F. C. Gale.

Hunted in same canyon from 3:30-5 pm + shot one queer Eutamias, spins questionable, and set 54 traps. These were set as follows: 20 in rocks + brush at foot of rock slide, 4 at Eutamias' holes, 15 in dry wash, and 10 in sagebrush. The first 20 look the most likely.

After supper shot a bat in a clearing near the stream

Arnold 1933

July 1, 1933 Visited traps at 6.4 AM and found 2 *Perognathus parvus* and 2 *Microtus montax*. The twenty "best sets" yielded only one *Perognathus parvus*.

Put up skins during the morning, hunted for a while after dinner shooting a *Lazuli Bunting*, *Audubon Warbler*, *Russet-backed* (?) *Thrush* and two young *Thrush* in nest.

Blew out skulls of yesterday's catch as rest of party has gone up hill hunting for the day.

Party arrived with 1 deer, 2 blue grouse and several other specimens. They left a deer to be ~~[illegible]~~ carried down tomorrow. As I will go on this party Dr E. R. Hall will handle the bird skins.

July 2, 1933 Went with Russell and Lillland to get Russell's deer. It was on the north slope of Toquima Mtn, Toquima Range, 9500 ft., Nye Co., Nevada. In this same vicinity and slightly lower I collected

Arnold-1933

July 2, 1933 (con)

2 Eutamias, 1 Callospermophilus, and 1 Clark's Nutcracker. Not far from camp I collected a Spotted Towhee. Russell collected a Marmot and 2 Woodpeckers. Lilleland collected 2 Audubon Warblers, 1 Chickadee, 1 Rock Wren. We saw no conies and only 2 grouse. The party arrived in camp with the meat at 4:15 P.M.

Comments. Rock Wrens were seen as high as we ascended (9500) while on this same ridge we found a nest with 2 half-grown Russett backed (?) Thrushes. Clark's Crows were common while Juncos were rare. Eutamias and Callospermophilus were common but wild. A Red-shafted Flicker was seen at nearly 9400 ft in a grove of aspen.

July 3, 1933

Remained in camp [Still at first camp] and put up skins most of day. Put up a spotted Towhee 2 Callospermophilus, and 2 Eutamias as well as 1 coney.

Arnold - 1933

July 4, 1933 Celebrated the day by remaining in bed till 6:50 A.M. After breakfast hunted up Grassy Creek canyon as far as the abandoned mine shaft. Collected 1 Black-headed Grosbeak ♂, 1 Mourning Dove, and 1 Eutamias m. picturus. The mine shaft was examined for bats but no sign was found. Woodrat sign was abundant. The rock slide on the west-facing slope was carefully watched and hunted for conies but none ~~were~~ was found. Returned to camp at 10:40 A.M. Left camp again and hunted down stream near the road. Shot one adult female Callospermophilus on rock slide. Crossed stream and crossed plateau near stream, shot 1 Callospermophilus, and 2 Eutamias. Spent afternoon and evening putting up skins and writing notes.

July 5, 1933 Left camp at 5 A.M. traveling up first north branch of Jefferson Creek. The party composed of Hall,

Arnold-1933

July 5, 1933 (cons

Wilson, Durant, and myself was primarily interested in conies. The party went up to 8700 feet along this creek and then seperated to hunt conies on the rock slides. The party secured 12 specimens and returned to camp by 11:30. During the morning I saw 4-5 conies but none were seen after 9:15 although ~~that~~ S. Durant collected one at about 10:45 a.m. One specimen was seen with hay in its mouth. One of my specimens was an adult female suckling young. During the morning several species of birds were seen. A Tolmie Warbler was seen in willow thickets near the stream a Russet-backed Thrush was heard, and many violet-green swallows were seen circling around the cliffs, probably with nests. The meadows, small, along the stream were covered with Castilleja, Iris, and grass. Piñon pine and juniper

Arnold-1933

July 5, 1933 con

were on the hillsides while willow, aspen, and alder lined the stream banks. Rose was the brush of the stream while artemisia was the "sage brush" of the side hill and flat. The conies were found on rock slides with occasional Artemesia clumps.

In the afternoon two box sparrows, nest and young were taken near camp. See Species accounts. Skins were prepared of the adults while alcoholic specimens were made of the young and attacking water snake.

July 6, 1933

Broke camp at location 1 mile east of Jefferson, Nye Co., Nevada at 9 AM today. The party drove to Tonopah by way of Round Mtn. and San Antone thru Big Smoky valley. Time was taken at Tonopah to receive and send mail, eat lunch, ~~check~~ examine + repair shoes and ~~check~~ the autos tires. From Tonopah the party proceeded

Arnold-1933

July 6, (con)

north east to Belmont and then north to a point 9 miles east of Mt. Toquima and made camp at an abandoned stone house at 7000 ft. elevation. During the ride from Jefferson to Tonapah but little of interest was noted except jackrabbit and a few common birds. Sand dunes and geological formations were also of interest. During the ride from Tonapah to his present camp several items were noted. Cliff swallow were noted nesting at Belmont. Brewer blackbird were seen at Belmont and around his camp. Three Turkey Vultures were seen north east of Belmont but my attempt at collection failed. Pigmy, Cotton-tail and jack-rabbits were seen but only the jack in numbers. Around this camp pigmy rabbits are common.

While placing 60 mice traps on the flat 1½ miles from this camp pigmy rabbits were seen commonly. One marsh-

Arnold-1933

July 6 (con) hawk was seen flying low over the sagebrush, one sage thrasher was seen, several Say Phoebe's, and 2 ravens. The traps were placed around a sandy knoll. Sage hen sign was common. At the stone house a Say Phoebe nest was found inside on a cross brace. There were 4 young, fully feathered young in the nest. Chipmunks were seen running under the broken stone.

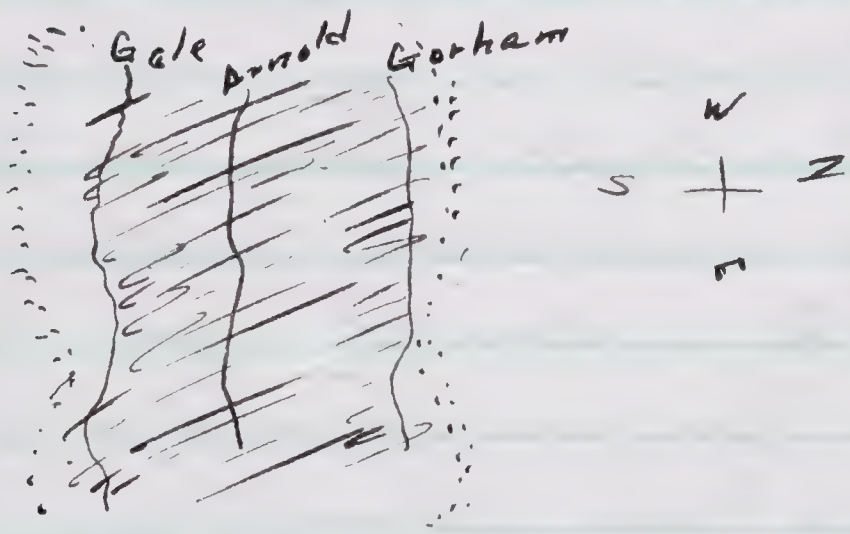
July 7. Picked up traps between 4-5 Am this morning; 2 living and 2 dead microdipodops comprised the entire catch. Others of the party were more fortunat in other regions. Kangaroo rats, Peromyscus m. sonoriensis, Reithrodontomys, Eutamias, Microtus, and others were taken by the total party. The morning + first part of the afternoon were spent putting up skins. Collected adult femal and one downy killdeer from meadow and put them up as skins. Found several meadowlarks and one feathered

Arnold-1933

July 7, 1933 (Cont) juvenile meadowlark.

Late in afternoon set 48 traps for Microtus in the wet meadow near camp.

July 8, 1933 Picked up traps at 8:45 and "drew a blank". not a thing out of 48 traps! From about 100 traps set by Gale and Gorham 2 microtus and 3 or 4 mice were taken from the same meadow



During the morning put up 3 skins for Ole Lilleland.

While in meadow saw 2 young sage hens, 2 young meadowlarks, and in the distance a Prairie Falcon

At 2:45 P.M. broke camp and proceeded down thru Belmont to Tonopah. Looked over some sand dunes on

Arnold-1933

July 8, 1933 (con) the way and after supper at Tonopah, returned and made camp among the dunes beside the road. As it was after dark, and flashlights scarce Stephen Durant, who had no flashlight, and I set 40 traps together in one trapline.

July 9, From the 40 traps took 1 Peromyscus m. sonorensis, 1 Dipodomys ordii, 1 D. levipes, 2 Perognathus nevadensis, and 1 microdipodops. The exact location is = Ralston Valley, 15½ miles northeast of Tonopah, elevation 5800 ft., Nye Co., Nevada. The specimens were drawn, wrapped in oil paper and net sacks, and packed. We drove by way of Clarks Station to the next location. This location is = Hot Creek Range, 8 miles ~~east~~ west of Tybo, 6700 ft elevation, Nye Co., Nevada. The afternoon was spent skinning the catch. Late in the afternoon I set out 15 rat traps and 20 mice traps. During my walks I saw one

Arnold-1933

July 9, (con) Shrike (Lanius) and 2 Black + white Warblers, collecting one of the latter.

During the evening Ward Russell collected a number of bats.

July 10, Went over the line of traps set out and took 1 Peromyscus crinitus, 1 P. truei, 1 Perognathus parvus and 1 Neotoma lepida lepida from the mice traps. The rat traps, set for chipmunks were untouched but at 11:30 A. M. took 1 Eutamias dorsalis and 1 E. quadrivitatus from these. The dorsalis was taken under a dead Piñon pine while the E. quadrivitatus was taken on the floor of the canyon near a live Piñon. [other collectors found more E. dorsalis on the rocky slopes too]. While picking up traps many lizards [Uta + Sceloporus] were seen and 1 collected [Uta]. During the day there 6 mammals, 1 Black-throated Gray Warbler [above referred to as "Black + white"], 1 Wright's Flycatcher, and 2 Ash-throated flycatchers were made up.

Arnold-1933

July 10, (con) These Ash-throated Flycatchers, a male & female, were taken near camp, probably a nesting pair.

During the evening from 7:30 to about 9, 5 members of the party, W. Russell, F. Gale, F. Gorham, S. Durant, and J. Arnold walked up to a spot 3/4 miles from camp known locally as Italian ~~Wells~~ Springs to collect bats. At this point there are 2 water tanks and a long watering trough set in a clearing. Many bats were seen flying over the tanks to get water and a total of 25 were taken. Many of the bats which were shot were not found. All were Myotis and a few Myotis evotis were among the group.

July 11, 1933 The first portion of the morning was spent searching around the tanks for dead bats and a few were found. During the morning after this I put up 3 Myotis, skeletonized, Spotted Towhee and put up 1 lizard. While hunting dead bats 3

Arnold-1933

July 11, 1933 (Con)

2 Utta + 1 Sceloporus lizards, were taken alive by Mr. Gorham + myself. After dinner everything was packed and we started up Fish Creek Valley to find a new collecting location. Two miles beyond Fish Lake two male Sagehens were secured. Dr. Hall also took one.

Late in the afternoon camp was pitched in the Monitor Range, Greenmonster canyon, 7500 ft., Nye Co., Nevada. The camp was about ¼ mile above the ranch between 2 small hay patches (alfalfa). The Indian rancher proved a fine host.

My trap line consisted of 40 traps in and among the rocks near camp. In a cave or deep crack much sign was found of Woodrats, mice and bats. The "sign" (droppings) was 6-8 inches thick on the floor in places, while the hard, dark brown, molasses appearing mine piles of the spelaeo

Ariz old. 193 >

July 11 (con)

were seen over the walls. In some places this was 12 - 16 inches thick + 2 feet down the slope. This probably indicated a long occupancy by Neotoma. Lizards were very abundant in the rocks.

At 7:35 the bat flight started, most of the bats appearing first from the rock pile. The bats were mostly Eptesicus fuscus, although there were a few Tadarida mexicana. I collected 2 bats.

July 12, From the trap line of 40 traps 4 Peromyscus m. sonorensis and 4 P. eremicus were taken and no Neotoma, probably because the Neotoma were wary as fresh sign was abundant. The day was spent putting up bats, Peromyscus, 1 Lagurus barbatus (col. by Wm Davis) and the 2 Sage hens. During the evening more bats were taken and notes written. The following birds were seen during the day: Lagurus

Arnold-1933

July 12. (con)

bunting, Violet-green Swallow, Hairy Woodpecker, — Nighthawk, Woodhouse Jay, Western Robin, Fox Sparrow (col. by W. Russell) and chipping sparrow.

July 13,

Hunted over rocky ledges and up stream bank and along upper meadow for birds. Took 1 song sparrow, 1 ♀ Robin juvenile, 1 Tolmie Warbler, and 1 Hammond (?) Flycatcher (Davis shot this Hammond - I do not know?). Set 10 traps among rocks where Neotoma sign was thickest so that during the next night the human odor would be less. (10:45 A.M.) At 11:30 took 4 Callospermophilus and at 4 p.m. took 2 more Callospermophilus from these traps. Apparently the Callo's are using these rocks and the cave rather than the Neotoma. In the afternoon got up one Callospermophilus and 3 birds. O. Lilleland putting up the Tolmie Warbler. Feb

JRA #177

Arnold-1933

July 13, (con.) in the afternoon set 20 rat traps (wooden) for Neotoma. This time I covered cave and rocky slope in nearly every likely place. In some places the dark, hard, molasses-like urine piles were 12-14 inches high and had run down hill for 2-3 ft. "Sign" was often 2-3 inches thick.

During the evening I shot one bat, a Big Brown.

July 14, 1933. Visited traps early and found just 2 specimens, one Neotoma lepida lepida, and the other Neotoma cinerea. These specimens were taken within 15 feet of each other and about 20 feet up the slope from the base. There were few droppings and no urine piles near. Rocks and dead brush were near but not within 10 feet of the trap.

At 7:15 Ob Lilleland and myself left camp for a days collecting trip toward the ridge. Our specimens were

Arnold-1937

July 14 (con)

put up by Frank W. Gorham and W and C. Russell.

As we were the third group (company) to go toward the ridge, certain things (large mammals) were not to be collected. Deer had been studied and collected by the first party while the second trapped the meadows. My interest was chiefly birds while Lillelund's was general.

I collected the first bird, a Tolmie Warbler at 7:30 in the rosebushes at the meadow. At the upper end of the meadow we put out a gopher trap apiece and followed up the stream. At 8:25 shot a ~~un~~ yellow warbling Vireo beside the stream in willows and rose bushes. There was no meadow here. At 9:40 shot another yellow warbling vireo in the aspens higher up the stream. At 10:A.M saw many violet-green swallows flying around the willows + rocky cliffs above. These flew close enough to

Arnold-1933

July 14, 1933 (con) have been nested. They were nesting in overhung crevices on the cliff facing S.W. At 11:15 in the second large meadow, while working thru an aspen thicket heard a noise and peering thru brush saw 3 young magpies. Took 1 dead + 2 living young to camp. These were large enough to run, hop, and fly a slight amt. Ate lunch in an aspen grove at the base of the mtn. itself. After lunch, amid a slight sprinkle of rain hiked thru the aspens trying to locate singing birds. Heard but could not collect. Tilleland climbed to the ridge, 10,200, to collect, while I then worked across the face at about 9000-9200 to collect. Among the mtn mahogany (Cercocarpus) on the ridge to the north I collected 1 Junco, 1 chickadee, 1 Chipping Sparrow and 1 Audubon Warbler, while on the flat among the ~~[illegible]~~ artemisia I collected 2 Brewer Sparrows. On the

Arnold-1933

July 14, 1933 (con) return trip I collected one Eutamias m. pictus and, Callospermophilus. During the evening I collected one bat.

Summary: Tolmie Warblers were replaced by Western Warbling Vireo as the altitude became greater. Nestoma sign was abundant the whole journey, particularly on the NE slope. Clark's nutcrackers are less abundant here than they were near Mt. Jefferson, Toquima Range, although they appear here at a lower range (7600 ft). Woodhouse jays are not very common. Red-shafted Flickers were heard over 9800 ft.

July 15, 1933 Left early to hunt conies on rockslide up the canyon. W. C. Russell, O. Lilleland, and myself. I collect 1 Coney and W. C. Russell 3, a total of 4 for the party. Returned to camp by 9:15 A.M. Put up skins taken the day before but rain plus the coney hunting trip combined to reduce

Arnold-1933

July 15, 1933 (con) the time available for skinning. As a result I was only able to put up the gopher secured from the meadow trap, 1 coney, 1 Eutamias, 1 bat, and 5 birds. Quite a bit of rain fell during the afternoon + evening.

July 16, 1933. Rolled out at 4:4 A.M and left camp at 4:45 to hunt conies (Ochotona ~~princeps~~ ~~minadensis~~). ~~Seated~~ myself near where yesterdays specimen was taken and noted the following. The rock slide inhabited by the coney is of granite, lichen covered and of flat rocks 3-8 inches thick by 8-24 inches in diameter. The slide was at 30 to 50 degree angle to the horizontal. Clumps of brush in most cases were from 40-75 feet apart but in some places more or less than this. ~~Sel~~ ~~Specimen~~ ~~secur~~ - A party of 5 took 6 conies by 9:4 A.M + returned to camp. Spent rest of morning + first of afternoon writing notes. At 2:45 left camp

Arnold-1933

July 16 (con) with Dr. Hall to set traps on the flat. Set twenty mice traps at a location in Fish ~~Creek~~ Spring Valley, 4 miles north of Fish Lake, 6600 ft., Nye Co., Nevada. Set gopher traps 1 mile north of the lake, and set 8 mice, 1 rat, and 2 steel traps ½ mile from the lake near an abandoned house & corral. Between the gopher set and the house saw, flying rabbit and just beyond the house saw ♀ sage hen & 2 young sage hen. See Species Acct. Drove out on lake and the two of us collected the following birds: Calif. Gull, 1, 2 Goldeneye, 1., yellow-headed Blackbird, 1 juv., Brewer blackbird ♀, 1, Wilson Phalarope, 2, Marsh hawk, 1., Savannah Sparrow, 2., and 1 young sage Sparrow. We saw 1 Blue heron but were unable to collect. A set of Nevada Red Winged B.B. eggs was taken & many adults seen. The marsh was fairly alive

Arnold. 1933

July 16 (con) with blackbirds, Brewer, Red-winged, and Yellow-headed. Killdeer, phalaropes + others were common. It would bear further study.

July 17, Moved camp picking up traps enroute. The catch consisted of one gopher, kangaroo rats, Peromyscus m. sonoriensis, and Reithrodontomys. We drove down Fish Creek Valley as far as the Hot ~~Spring~~ Creek road and drove to Hot Creek via Page's Ranch. Camp was made in Hot Creek Range, 4 mi. N Hot Creek, 6400 ft., Nye Co., Nevada. The road from camp to camp was muddy in many places because of rain.

Traps were set out on the flat 4 mile north Hot Creek, 5900 ft., and at 6½ miles north also at 5900 ft.

Camp was made in 3 abandoned brick kilns.

July 18, Took 4 Perognathus nevadensis from 60 traps, most of them (traps) being set off by rain. 24 horned toads (Phrynosoma platyrhinos)

Arnold - 1933

July 18 (Con)

and 3 Lizards, 2 Leopard and 1 whip-tailed, were taken near the road. See Species notes on Phrynosoma. Spent day putting up birds taken July 16 at Fish Lake. That afternoon put out 10 traps in meadow ¼ mile west of Hot Creek, 10 on hillside at same spot, and 15 on the road south of Hot Creek. Rain prevented the further placing of traps.

July 19, 1933 From the traps took 1 Bufo from the meadow and 1 P. m. sonoriensis near the Hot Creek ranch. Nothing was taken south of the ranch. The poor catch was probably due back to the weather & to the poor area. The morning was spent taking care of these specimens & reptiles taken the previous day. While taking up traps the following birds were seen: Brewer Blackbirds, Red wing birds, English Sparrows, and Lark Sparrow. An Oriole thought to be the Arizona Hooded Oriole was

Arnold-1933

July 19, 1933 (Wed) seen but could not be collected.

The afternoon was spent putting up specimens taken by W. C. Russell + F. W. Gorham on the Ralston Valley, 34 mi. E + 1 mi. N. of Tonapah. This is approximately 5 miles south of Clark's Station, a local name. I put up Dipodomys deserti, D. ordii columbianus, D. luciferus, and Onychomys.

Late in the afternoon I set 74 traps at a location in the valley 3½ miles east of Hot Creek. After setting traps collected 1 Brewer blackbird thinking it extra large. Probably due to peculiar condition of molt. While driving up the canyon to camp saw a group of 6-8 jays, probably Woodhouse, 2 doves, 1 roadrunner, and 1 kingbird.

Spent evening in camp.

July 20, Caught 4 Perognathus nevadensis, 1 Microdipodops, 1 Dipodomys ordii columbianus, + 3 D. luciferus in traps. Caught several "tails only" and had many traps set.

Arnold-1933

July 20, 1933 (Con)

off. A more carefully set trap-line would catch many more specimens. While returning from the trap. line saw an adult Red-Tailed Hawk, several Kingbirds, and a un mockingbird.

During day put up specimens and wrote notes.

In late afternoon put out traps, 10 wooden rat and 30 wooden mice traps. All traps were set on the east side of the stream, from camp to the burned area about 3/4 mile up stream. Some were set in the rocks, some under pine trees, and some on the stream bank for shrews.

At about 9:30 p. m. 5 of the party Hall, Davis, Lillard, and Arnold, drove & walked 1 1/4 miles up the canyon to hunt bats in 3 kilns in which bat sign had been found in the afternoon. Seven bats were taken by means of flashlights, gun, and by

Arnold-1933

July 20, 1933 (Con) nets. Brown bats, E. fuscus, and Myotis volans interior were taken. The brown bats were carrying fully furred young. The party returned at 11:30 P. M. One lizard, Uta, was taken.

July 21, 1933 From 40 traps took 5 Neotoma lepida, 3 Peromyscus m. sonorensis, 3 P. crinitus. I lost 3 traps, one a wooden rat-trap wired down! The neotoma & P. crinitus were taken among the rocks while P. m. sonorensis were taken near the water in shrew sets. During the walk two Robins, Spotted Towhee and Jays were seen.

Afternoon camp was changed. We drove via Hot Creek, and Warm Springs to a location known as Old Mill. This mill is an abandoned ore crusher and the exact location is North end of Reveille Valley, Old Mill, 6200 ft., Nye Co., Nevada. Traps were set out in all directions

Arnold - 1933

July 21, 1933. (con) from the Old Mill itself. Dr. Hall, O. Lillard, and myself set traps down the road to Reveille. I set 66 traps to the south of the road. At Old Mill Russell shot a Wilson Phalarope and we saw several Nighthawks, 2 non Mockingbird several old + many young Rock Wrens, and I bought 2 linnets (?). Dr Hall saw a shrike. [Note At Warm Springs, as at several other places, a captive mockingbird was held as a songster. The mockingbirds however are very wild in the brush + are hard to approach]

July 22, From the 66 traps took 2 Dipodomys luxipes, 1 Peromyscus ~~sonoriensis~~, + 11 Microdipodops. Most were taken on the flat, in spite of numerous cow paths + tracks, than in a sandy wash in which I expected a heavy haul. The specimens were sexed, weighed, drawn, and wrapped in oil paper + wet sacks. After this was taken care of Camp was

Arnold · 1933

July 22, 1933 (con) again on the move. We took the road labeled Reveille and drove to the Reveille Mtns. We attempted to find New Reveille in these mtns but failed to find the location. We then drove via Arrowhead, Railroad Valley, to Myala. After securing information as to water here, we drove to a cow-camp on Big Creek. Made camp here at about 12 p.m. Had dinner and started work on specimens at 3 p.m. Put up 6 mammals + 2 reptiles. Put out 30 traps, as had many specimen in camp to do, at a location 1 ¼ miles north of here on the slope leading out into the valley. The exact location of camp is Quinn Canyon Mtns, Big Creek, 5700 ft., Nye Co., Nevada. Ate supper at 8 p.m.

July 23, '33 Picked up 30 traps and took 1 Dipodomys d. columbianus, 1 Peromyscus m. sonoriensis, and 1 Perognathus nevadensis. We at this camp have seen many

Arnold-1933

July 22, 1933 (con) doves, 2 Sparrow Hawks, several ~~wr~~ Kinglets, 2 linnets, and nests of Orioles. Spent morning putting up skins and afternoon blowing shells, putting up reptiles and correcting notes. During the morning a shike spent some time on a tree near the tent. A Brewer Blackbird flew down canyon while doves were common.

Drove up canyon 6/10 of a mile from camp and set 50 traps among rocks on the east side of Big Creek at an altitude of 5800 ft. Saw sage sparrow and bats. Collected one Myotis on return, saw several other bats.

On return to camp was told of a snake (unseen) that had swallowed + then spit out 4 specimens (mice) left on the table. A trap baited with a dead Peromyscus was set for the snake.

July 24, 1933 Drove up canyon + took up traps. Caught 6 Perognathus formosus, and 13 Peromyscus crinitus. They seemed to be found in

Arnold-1933

July 24, 1933 (con) the same ecologic niche as they were caught within 10 feet of each other.

Spent most of morning and part of afternoon putting up specimens. Left at 4:30 with Dr. Hall & O. Lilleland to trap at Dry Lake. Arrived at dry lake & found no traps (except 40 in one coat). [Probably my fault as I gathered the traps together (230) and placed them with other material beside the car. Never looked to see if they were packed!].

Set 15 traps among the dunes to the North of the lake. The outstanding brush is low atriplex, much of this dead.

July 25, 1933 Took 1 Dipodomys m. leiper, 1 Perognathus nevadensis, and 1 Microdipodops pallidus: 6 traps were spring and empty. Everywhere tail marks indicated an abundance of animal life. O. Lilleland caught a Onychomys, a longer tailed species, while Dr. Hall & Lilleland both caught Microdipodops

Arnold - 1933

July 25, 1933 (con) The material (specimens) was wrapped in oiled paper and wet sacks. We then drove to Nyala where we joined the party, now moving toward our new camp. This new camp is in the Quinn Canyon Mtns, Burned Canal Canyon, 6700 ft. elevation, Nye Co, Nevada. The trees are Piñon pine, Mtn. Mahogany, Holly Grape, the shrubs, Artemisia, and others.

Spent early afternoon skinning specimens and later put out 60 traps. A heavy rain occurred washing bait away + setting off some traps. These were reset before dark. Rained in evening + made a wet camp! Wrote notes + went to bed.

July 26, 1933 From the 60 traps took 1 *Microtus mordax*, 1 *Peromyscus truei*, and 12 *Peromyscus m. sonoriensis*. Spent morning putting up these and a Cassin Purple Finch taken last night. Late in the afternoon walked up a narrow, rocky canyon

Arnold-1933

July 26, 1933 (con) to set traps. Set 40 in this canyon and on the hillside above. Saw one Callospermophilus and two Eutamias. Could not determine the species. Heard several jays. Returned to camp and walked upstream. Took 1 Spotted Towhee and 1 Bush-tit. Saw nighthawks, jays, and heard a chickadee. Would estimate about 25 bush-tits, 15 nighthawks, 5 jays, 4 towhees, and 4 purple finch in this part of the canyon. Set 10 more traps beside the stream. Heard a hummingbird, but could not see it. Also saw a Clark's Nutcracker.

July 27, 1933 From the 10 traps near the spring took 5 Peromyscus m. sonoriensis. From 2 in the flat took two Perognathus parvus. From the others in the canyon took 2 Peromyscus truei, 1 Callospermophilus, and 6 Peromyscus m. sonoriensis. Walked up this canyon and shot 1 Eutamias quadrivittatus, and two

Arnold-1933

July 27, 1933 (con) Eutamias dorsalis. Also shot a mtn chickadee. Saw 3 point buck deer. The dominate tree was the piñon pine although Cercocarpus was common. A few yellow and limber pines were seen. On the ground a low Phlox was general. The altitude here I would estimate to be around 7800-8000 ft above sea level. Set 15 traps in the canyon for chipmunks

Spent much of day in camp skinning specimens.

In evening shot bats, a species of Myotis, as they flew over the small reservoir near camp.

July 28, 1933 Caught nothing in chipmunk sets. Shot 2 Eutamias dorsalis, one Perognathus lordiensis, one Peromyscus m. curtatus, and one Panusgambeli. Spent morning putting up skins.

Afternoon shot one Zenaidura cassini and one Vireo columbiana just beside camp. Walked up right branch of Burned

Arnold-1933

July 28, 1933 (Con) Corral Canyon about 3/4 mile to set traps. Saw adult Red-tailed Hawk, Mt. Chickadee, Woodhouse Jays, and Bush Tits. The red-tailed hawk was heard giving his characteristic Cree! several times even before it was seen. It circled repeating this note. Two Spotted Towhees, and one Black-throated Gray Warbler were collected. 43 traps were set for Woodrats, Peromyscus crinitus and Microtus.

July 29, 1933 From the trap-line took the following specimens: 2 Reithrodontomys, 1 Peromyscus truei, 1 Microtus mordax, and 1 & Peromyscus m. sonorensis. Shot male Black-throated ~~Hatty~~ Gray Warbler. Spent most of day pulling up skins. Put out traps across valley from camp, principally for Neotoma. Spent evening in camp.

July 30, Took 2 Peromyscus crinitus and 4 P. m. sonorensis from traps. Shot 1 E. domestic and 2 E. quadrimaculatus.

Arnold-1933

July 30, 1933 Shot a violet-green swallow and saw a rufous-throated swift. The caves in which Neotoma sign was abundant yielded no Neotoma but instead caught Peromyscus crinitus. The canyon below was very narrow with high cliffs. The mouth of the canyon was grown to Juniper and Piñon Pine, while the upper canyon side was covered with a mixture of white fir, Piñon Pine, and Limber Pine. The south-east slope was more heavily set to fir while fir was scarce on the opposite slope. Beneath the firs (6 in to 2 ft in dia.) Chaenabatia (?) and maple mingled with the Cercocarpus.

The rest of the day was spent in camp preparing skins.

In evening shot bats. The party took several species; Myotis evotis, Myotis volans interior, a Myotis of questionable species, Opteicinus fuscus, Tadarida mexicana, Antrozous pallidus, and Nyctinomus ~~b~~ cinerea.

Arnold-1933

July 31, 1933 Spent first portion of morning hunting with Mr Davis in a canyon leading from the main Cherry Creek Pass Canyon. The location was cited as 7 mi. E. Ely, Ely Co, Nevada. Collected Euthamias dorsalis, Euthamias ~~[illegible]~~, Pipilo m. curtatus, Spizella breweri, Popicptila sp., Salpinctes obsoletus, and Carpodacus cassini. Saw Citellus grammurus was escaped in rocks. Mr Davis took a Sylvilagus n. grangeri and a Green-tail Towhee. I observed Mr Tanagers, Black-headed Grosbeaks, Woodhouse Jays, Red-shafted Flickers, and several other sps.

Spent rest of day in camp.

Aug 1, Left camp at 8:30 for California. Drove via Calloways Ranch (Currant P.O.), Duckwater, Eureka, Austin, and east gate to Fallon. Camped for night between Fallon and Sparks. On ride made a few observations. Ravens were seen several times between Ely and Calloways Ranch. Many blackbirds were seen

Arnold-1933

Aug 1, 1933 (Con) at Duckwater. Mockingbirds were seen near (100 yds) of the Duckwater ranch and in the yard of an unknown ranch south of Calloways. Dr. Hall shot a Citellus mollis between Duckwater and Eureka. Near East Gate many jack-rabbits were seen, often in groups of 5-6. This was in the late afternoon and bunch was a little taller here than that passed earlier in the day. East of Fallon quite a few Avocets were seen as well as blackbirds. The avocets were most common in partially flooded pastures.

Aug. 2, 1933 Left camp east of Sparks, Nevada at about 4:45 AM. Drove to Reno, at breakfast, and continued on to the checking (Quarantine) station. Passed without question and drove to ~~Reno~~ Truckee. Spent 3 hrs. waiting for repairs on Dodge Truck. Drove to Berkeley via Auburn Sacramento, and Davis.

Arnold-1933

Aug 2/1933 (con.) Arrived at Museum of Vertebrate Zoology at 6:40 P.M.

During last leg of journey made few observations. However, just before reaching Dijon saw 50-60 ~~cows~~ gathered in pasture beside highway. The contrasting of California's cattle with those of Nevada took my attention on the return.

August 2, 1933

John R. Arnold.

-nold-1933 **Myotis**

June 30, 1933 Toquima Range, 1½ mi. E Jefferson, 7700 ft., Nye Co., Nevada; during the evening, about 7:30, this specimen was taken while flying over the road leading up the canyon beyond our camp. The above caption is probably in error of 50 ft in altitude as it is nearer 7650 than 7700. Several bats were seen during the evening and Francis Gale collected a second specimen, apparently identical with mine. The specimen was a male.

J.R.A. #109

July 10, 1933 Hot Creek Range, 8 mi. W Tybo, 6700 ft., Nye Co., Nevada; during the evening from 7:30 to 9 p.m. 5 members of the party, W. Russell, F. Gale, F. Gorham, S. Durant, and J. Arnold, collected bats over a water tank known locally as Italian ~~Wells~~ Springs. Some 25 bats were secured although many were not found. Several species of Myotis, including M. ~~lucifugus~~, were taken. JR Arnold nos 160, 161, + 162.

Arnold-1933

Myotis

July 28, 1933 Quinn Canyon Mtns., Big Creek, 5800 ft., Nye Co., Nevada: shot a Myotis as it flew slowly up the canyon among the poplar. The canyon was narrow walled & the bats flew low & very slowly. These bats did not fly nearly as fast as the Myotis taken at Italian Springs. [JRA no. 239.]

July 30, 1933 Quinn Canyon Mtns., Burned Corral Canyon, 6700 ft., Nye Co., Nevada: collected a small Myotis, species unknown or rather questionable. [JRA. no. 304].

Arnold-1933 *Eptesicus fuscus*

July 11, 1933 Monitor Range, Greenmonster Canyon, 7500 ft., Nye Co., Nevada: at 7:35 p.m. a flight of bats started, most of which proved to be this species. The bats are slower flyers than *myotis* and fly a straighter course. All appeared to come from the rocky point and the cavern there although I found no bats there in the afternoon. A specimen collected contained a fully formed embryo 29 mm. long.

July 13. The flight started a little earlier as it was cloudy. This time there were a few Mexican free-tailed bats in the flight. These are more difficult to hit.

July 14 The flight started at 7 p.m. this evening but fewer bats appeared. Probably because there are less of them! A bat taken contained 1 embryo 29 mm long. A captive bat gave birth to a young male bat today.

Arnold-1933 Callospermophilus l. tridulus

June 29, 1933 Toquima Range, 1½ mi. E Jefferson, 7750 ft., Nye Co., Nevada: shot one specimen among the rocks and saw one other.

July 2, 1933 Toquima Range, N slope Toquima Mtn., 9400 ft. Nye Co., Nevada: shot one specimen in jumbl of big rocks on east facing side slope. Eutamias were common in the same rocks. The growth was sagebush, small willows, and nearby a grove of aspen. During a trip from camp at 7600 to this altitude they were commonly seen scampering thru broken rocks or rocky slopes.

July 4, 1933 Toquima Range, 1 mi. E Jefferson 7600 ft., Nye Co., Nevada: this species was seen quite often today, this morning, in a short hike near camp. An adult female and an immature female were collected. Several others were seen. As mentioned above both Eutamias and this species were seen in the

Arnold-1933 Callospermophilus l. tripidus

July 4, 1933 (con) group of rocks. At one moment 2 Eutamias and 1 Callospermophilus ran from me into one clump of sagebrush.

July 11, 1933 Hot Creek Range, 8 mi. W Tybo, 6700 ft., Nye Co., Nevada: This location was marked by the absence of this species. I saw none and I believe no one saw any.

July 16, 1933 Monitor Range, Greenmonster Canyon, 7500 ft., Nye Co., Nevada: in the region surrounding this camp this species is very common. July 13, in this canyon, in a pile of rocks I caught 6 specimen in 2 hours with 10 traps. These specimens were taken of among rocks covered with neotoma sign, possibly these have repeaved the Neotoma. Of these specimens 5 were young + 1 large female. In nearly any direction several could be found. They were found up as far as 9000 ft. to my knowledge.

Arnold-1933 Callospermophilus l. tripidus

July 21, 1933 Hot Creek Range, 4 mi. N Hot Creek, 6400 ft., Nye Co., Nevada: saw non collected more of this species at this location. Ammospermophilus and Eutamias dorsalis seemed to replace it. This seemed true of the Hot Creek Range, 8 mi. W. of Tybo, 6700 ft., Nye Co., Nevada. It may be the altitude or other conditions, at least they were absent.

July 31, 1933 Quinn Canyon Mtns., Burned Corral Canyon, 6700 ft., Nye Co., Nevada: while this species was taken a short distance above camp, none was found near camp, and they were not common even in the other canyons. E. dorsalis was common here and seemed to replace the Callospermophilus.

Arnold-1933 Eutamias m. pictus

June 29, 1933 Toquima Range, 1½ mi. E Jefferson, 7750 ft., Nye Co., Nevada; shot a male in rocks at base of piñon pine. They are very ~~wild~~ active.

June 30, 1933 Another specimen collected 50 ft. lower in same location as above.

July 2, 1933 Toquima Range, N slope Toquima Mtn, 9400 ft., Nye Co., Nevada: shot one of this species among rocks along with a Callo- and a Eutamias quadrivittatus in nearby rocks.

July 4, 1933 Toquima Range, 1 mi. E Jefferson, 7600 ft., Nye Co., Nevada: 2 specimens were taken near camp. The smaller specimen (no. 22) was very brightly marked while the larger was slightly worn. These specimens were taken in sage brush beneath piñon pines, the smaller shot from the top of a dead bush.

July 11, 1933 Hot Creek Range, 8 mi. W Tybo, 6700 ft., Nye Co., Nevada: none of this species was taken or seen.

Arnold-1933

Eutamias m. pictus

July 16, 1933 Monitor Range, Greenmonster Canyon, 7500 ft, Nye Co, Nevada: this was the dominant species around this camp. Several young were seen near the meadow above the stream. Several specimens were taken, all in summer pelage.

July 31, 1933 Quinn Canyon Mtns, Burned Corral Canyon, 6700 ft, Nye Co, Nevada: on a walk about a mile south west of here, toward the location cited as 7 mi. E Nyala, saw several of this species but not as commonly as E. dorsalis.

Arnold-1933 Eutamias quadrivitatus

July 2, 1933 Toquima Range, N slope Toquima Mtn., 9400 ft., Nye Co., Nevada: shot another specimen of this species. This one was shedding or rather molting as was the one taken on June 30. The pelage is much darker than usual and the markings are dim or invisible. The pelage reminds one of an animal covered with soot, particularly over the head and shoulders.

July 4, 1933 Toquima Range, 1 mi. E Jefferson, 7600 ft., Nye Co., Nevada: another specimen with worn pelage was taken today, but less worn than the previous specimens.

July 10, 1933 Hot Creek Range, 8 mi. W Tybo, 6700 ft., Nye Co., Nevada: took one specimen below a Piñon pine along the dry creek bed. It was a full adult ♂.

Arnold-1933

Eutamias dorsalis

July 10, 1933 Hot Creek Range, 8 mi. W Tybo, 6700 ft., Nye Co., Nevada: took one specimen from trap line. Was taken under a trap set under a dead piñon at the edge of a rocky slope. It was alive when taken held by the tail. Upon dissection and weighing it seemed much better formed than E. quadrivittatus. The body is wonderfully muscled and compact. A living specimen raced across a nearly perpendicular rock surface with ease.

July 21, 1933 Hot Creek Range, 4 mi. N. Hot Creek ~~[illegible]~~, 6400 ~~ft, Nye Co, Nevada~~: Saw 2 or 3 of this species, shot at one, and several were collected by party. Those I saw were climbing in currant bushes. They seemed to inhabit all parts of the canyon. Here ~~Piñon~~ pine, willow, poplar, and Artemisia predominated although annuals, Rose-bushes, and currant were fairly general.

next page

Arnold-1933 *Eutamias dorsalis*

July 31, 1933 Quinn Canyon Mtns.; Burnt Corral Canyon, 6700 ft., Nye Co, Nevada; in hunting today made a few observations on this species. Mr Davis was with me and made some of the observations. First, this species was found more commonly on the flat than on the hill top. Second, many more were seen in a small shrub than in trees. This small shrub ~~and~~ was covered with small fruits, apple-like in nature. Dr. E. R. Hall took a specimen of this shrub. Third this fruit was found in their cheek pouches indicating it an article of food.

Arnold-1933

Thomomys quadratus fisheri

July 14, 1933 Monitor Range, Greenmonster Canyon, 7600 ft., Nye Co, Nevada: caught a specimen of this species in a freshly opened mound at the upper end of the meadow. The mounds extend to the edge of the sagebrush but this specimen was taken in a moist but not dry grassy plot. The soil was loose & the grass made a thin (2-3 inch) sod. The trap was set about 18 feet from the stream bank. [J. R. A. # 178.].

Arnold-1933

Perognathus nevadensis

July 18, 1933

Hot Creek Range, 4 ~~4~~, 6½ North of Hot Creek, 5900 ft., Nye Co., Nevada: took 2 adults at the first and 2 young at the second location. The ground was dark with small rocks. The shrubs were small Artemisia about 8-10 inches high, occasionally 2 feet. No runways were seen but one specimen was taken in front of a small, flat-opening, sandy burrow. They must have been taken before the heavy rain which came before 9:P.M.

Arnold-1933 Perognathus parvus

June 30, 1933 Toquima Range, 1½ mi. E Jefferson, 7250 ft., Nye Co., Nevada: trapped one male on edge of dry wash beneath Ephedra bush. only one caught in area although several traps were nearby.

July 1, 1933 Trapped one from a series of 20 traps set beneath shrubs along rocky wall of above wash. Trapped one near the same location as June 30. The pouches were filled with rolled oats, the bait.

July 7, 1933 Monitor ~~Range~~ Valley, 9 miles East Toquima Mtn, 7000 ft., Nye Co., Nevada: put up a specimen taken by Paul T. Wilson. Four or five were taken by the party last night. This specimen was carrying seeds, apparently of the Compositae, and 1 larger seed.

July 10, 1933 Hot Creek Range, 8 mi. W. Tybo, 6700 ft., Nye Co., Nevada: took one specimen among rocks near a trap containing a Peromyscus crinitus. Not a typical (?) Perognathus habitat.

Arnold-1933

Perognathus parvus

July 27, 1933 Quinn Canyon Mtns., Burned Corral Canyon, 6700 ft., Nye Co., Nevada; caught 2 specimens, an adult ♂ and a juv. ♂, in traps set near the rocky hillside yet under Artemisia. None were taken in the canyon.

Arnold-1933

Perognathus formosus

July 24, 1933

Quinn Canyon Mtns., Big Creek, 5800 ft., Nye Co., Nevada: Caught six specimens of this species among the rocks at above location. The other species trapped was Perognathus crinitus. This is the largest Perognathus trapped on this trip. The long hairy tail and the smoky color readily distinguishes this species.

Arnold. 1933 — Dipodomys ordii columbianus

July 7, 1933 — Monitor Valley, 9 mi. E Toquima Mtn., 7000 ft., Nye Co., Nevada: put up 2 specimens collected by Paul T. Wilson from this locality. My trap line in similar territory yielded only Microdipodops while that of F. Gale 100 yds away caught 2 Dipodomys. This species is of medium size + fairly light colored.

July 9, 1933 — Ralston Valley, 15½ mi. NE Tonopah, 5900 ft., Nye Co., Nevada: took 2 Dipodomys here, one of which was of this species. The 2 species, D. o. columbianus, and D. ~~lewiei~~ were taken in the same sand dunes near sage clumps + in the same type of set.

July 10, 1933 — 9 mi. W, 3 mi. S Tybo, 6300 ft., Nye Co., Nevada: 3 members of the party caught large number of this species at this location. They were taken on sand among sage clumps.

Arnold. 1933 — Dipodomys microps levipes

July 9, 1933 — Ralston Valley, 15½ mi. NE Tonopah, 5800 ft., Nye Co., Nev: took one of this species in same trapline with D. ordii. It is of a darker tinge and in all measurements slightly larger than D. ordii.

July 19, 1933 — Ralston Valley, 3+ mi. E + 1 mi. N Tonopah, 5650 ft., Nye Co., Nevada: W. C. Russell and F. W. Gorham took a number of specimens of these with the above location. One specimen of D. deserti was taken.

July 20, 1933 — Hot Creek Valley, 3½ mi. E Hot Creek, 5650 ft., Nye Co., Nevada. This species seemed to predominate among those of this genus taken. Many of the mouthparts and the intestines were a yellow-green, seemingly colored by a pollen.

Arnold-1933 **Dipodomys deserti**

July 19, 1933 Ralston Valley, 3 + mi. E + 1 mi. N Tonopah, 5650 ft., Nye Co., Nevada: put up one specimen taken by W. C. Russell at above location. This was the only one of this species from about 25 Dipodomys taken by Russell + F. W. Gorham. It is very much larger + lighter than other species + is characterized by it + only third toes.

Arnold-1933

Microdipodops

July 7, 1933 Monitor Valley, 9 miles E Toquima Mtn., 2000 ft., Nye Co., Nevada: caught 4 specimens of this genus in my traps last night. Two were living, two dead. The species resembles greatly their namesake + kinsman, the Kangaroo rat, and was found in similar localities. The workings were fairly common, yet from 57 mice traps only 4 were caught and only these specimens. Those caught were taken near holes + mounds, a miniature of that of Dipodomys.

July 9, 1933 Ralston Valley, 15½ mi. N.E. Tonopah, 5800 ft., Nye Co., Nevada; caught one among sand dunes. caught in open between sage clumps.

July 10, 1933. 9 mi. W., 3 mi. S. Tybo, 6300 ft.; Nye Co., Nevada: 3 members of the party took large number of this species here, a short trip from the base camp in the hills. E. R. Hall took 32 specimens of this species from 103 traps. Others had similar experiences.

July 20, 1933 Hot Creek Valley, 3½ mi. W Hot Creek, 5650 ft., Nye Co., Nevada: took one specimen from 94 traps.

Arnold-1433

Microdipodops

July 22 N end Reveille Valley, Old Mill, 6200 ft., Nye Co., Nevada: caught eleven Microdipodops about 1 mile east of above location. More were taken on ground trampled over by cattle than on smooth, fine sand in a wash nearby.

July 24, Railroad Valley, 9½ mi. E. New Reveille, 5100 ft., Nye Co., Nevada: helped catch a specimen alive at 6:P.M. It was seen from the car and the chase followed. We dug 8-10 inches into the burrow into which it dashed and it ran past our hands into another burrow. This burrow was shallow, evidently a place of refuge & a food storage. It (the kind) was kept alive for study. It uttered no sound as captured. Several other burrows opened were found to be plugged with sand at about 8 inches below the surface.

Arnold-1933 Peromyscus crinitus

June 30, 1933 Toquima Range, 1 mi. N.E. Jeffersen, 7600 ft, Nye Co., Nevada: put up specimen of this species taken by F. Gale. The longer tail readily distinguishes it from P. m. sonoriensis. It occurs in the same habitat.

July 8, 1933 Monitor Valley, 8 mi. E Toquima Mtn, 7100 ft., Nye Co., Nevada: put up specimen taken by Paul Wilson from the above location at foot of hills.

July 10, 1933 Hot Creek Range, 8 mi. W Tybo, 6200 ft., Nye Co., Nevada: took one specimen in rocks while setting for Peromyscus truei.

July 12, 1933 Monitor Range, Green monster Canyon, 7500 ft., Nye Co., Nevada: took 4 P. crinitus out of 8 Peromyscus taken. All were from among the rocks on a rocky point near camp.

July 21, 1933 Hot Creek Range, 4 mi. N Hot Creek, 6400 ft., Nye Co., Nevada: caught one adult male & one young among rocks. Piñon pine and artemisia were the common plants with scattered grass (rye grass) clumps.

Arnold-1933 *Peromyscus crinitus*

July 24 Quinn Canyon Mtns., Big Creek, 5800 ft., Nye Co., Nevada: caught 13 of this species from a total catch of 19 specimens. All traps were set either along the base of a rocky hillside or where set on the rocky hillside. About 30 feet from the base of the hill ran the stream lined with willows and poplar. *Perognathus famosus* was the other species trapped nearby.

July 30, 1933 Quinn Canyon Mtns., 2 mi. E Nyala, 7000 ft., Nye Co., Nevada: caught 2 of this species in caves, in traps set for *Neotoma*.

Arnold-1933 **Peromyscus maniculatus sonoriensis**

♀

June 29, 1933 Toquima Range, 1 mi. E Jefferson, 7600 ft., Nye Co., Nevada; several collected by party.

June 30, 1933 Toquima Range, 1½ mi. E Jefferson, 7250 ft., Nye Co., Nevada: trapped one female in dry wash under small brush; many runs in wash seemed to be made by this species.

July 7, 1933 Monitor Valley, 9 mi. E Toquima Mtn., 7000 ft., Nye Co., Nevada: put up 2 skins today of specimens trapped by Paul Wilson. Several members of the party took specimens here although I caught none. One female contained 5 embryos, 2 in the right, 2 in the left horn, 15 mm long.

July 9, 1933 Ralston Valley, 15½ mi. N E Tonopah, 5800 ft., Nye Co., Nevada: took this species on sand dunes in traps set for Microdipodops and Dipodomys. In the same trapline Dipodomys, Microdipodops, Perognathus, and Peromyscus crinitus were taken.

July 12, 1933 Monitor Range, Greenmonster Canyon 7500 ft., Nye Co., Nev.: took 4 specimens

Arnold-1933 Peromyscus m. sonoriensis

from a line of traps set in a rocky point near camp. Several were young. The runs were similar to chipmunk runs in some places & in others apparently coincided with those of Neotoma.

July 19, Hot Creek Valley, 4 mi. W Hot Creek, 5900 ft., Nye Co., Nevada: caught one male of this species at above location from 10 traps set at location. The trap was set under low greasewood (Sarcobatus) about 30 feet from the road.

July 21, 1933 Hot Creek Range, 4 mi. N Hot Creek, 6400 ft., Nye Co., Nevada: took 4 specimens along creek in traps set for shrews. One specimen must have been swept out into the water. None of this species was taken among the rocks but was replaced there by P. crinitus. All specimens taken were adults. The traps were set among mint plants near the edge of the stream or among grass blades.

Arnold-1933 Peromyscus m. sonoriensis

July 26, 1933 Quinn Canyon Mtns., Burned Corral Canyon Mtns., 6700 ft., Nye Co., Nevada: caught 12 of this species in this locality. They were trapped on the hillside, flat, stream bank, and rocky ledge. They were taken in the same rocky ledge as P. truei.

July 29, 1933 Quinn Canyon Mtns., Burned Corral Canyon, 6800 ft. Nye Co., Nevada: Caught 18 of this species in traps set among the traps for P. crinitus and P. truei. Caught one P. truei.

July 30, 1933 Quinn Canyon Mtns. [Burned Corral Canyon?] 7 mi. E Nyala, 7000 ft., Nye Co., Nevada: caught 4 specimens and 2 P. crinitus in caves in which Neotoma sign was very abundant. These caves were set high on the cliff.

Arnold - 1933

Peromyscus truei

July 10, Hot Creek Range, 8 mi. W Tybo 6700 ft, Nye Co, Nevada: took one specimen among rocks on south facing slope. There were only 2 taken in the camp. Apparently in same rocks with P. crinitus and Perognathus parvus.

July 26, 1933 Quinn Canyon Mtns, Burned Corral Canyon, 6700 ft., Nye Co, Nevada; caught one specimen (♂) in a rocky canyon on a rocky ledge. The only one taken by anyone that night.

July 27, 1933 Quinn Canyon Mtns, Burned Corral Canyon, 6800 ft, Nye Co. Nev: two specimens were trapped one in the canyon, and one on the hillside. I believe it is this species that steals the bait from rat traps yet run away with mice traps when either are set on the hillside. (one tail in a mouse trap is my only evidence)

Arnold-1933 Neotoma lepida lepida.

July 14, 1933 Monitor Range, Greenmonster Canyon, 7500 ft., Nye Co., Nevada: Took one of this species within 15 feet of a trap holding a bushy-tailed rat. Sign of rat was very abundant all thru the rocks but 20 traps one night and 15 the next took only 2 rats although 10 traps during the day took 6 Callospermophilus.

July 21, 1933 Hot Creek Range, ~~4 mi N~~ Hot Creek, 6400 ft, ~~Nye Co.~~, Nevada: Took 5 specimens along rocky slope of canyon. Two females evidently were suckling young. Very little sign was seen and all houses seemed to be among the rocks.

Arnold-1933

Neotoma cinerea

July 14, 1933 Monitor Range, Greenmonster Canyon, 7500 ft., Nye Co., Nevada: took large male of this species among rocks near camp. Took M. lepida near the same place. Sign was abundant but both species were difficult to trap.

Arnold-1933

Microtus mordax

July 1, 1933 Toquima Range, 1½ mi. E Jefferson, 7750 ft., Nye Co, Nevada: trapped 2 specimens in dry wash, traps being set under dry brush. Caught 1 femal with embryos 24 mm in length, 2 in right + 3 in left horn. There was no grass nearer than 50 ft. + then only a few specs.

July 8, 1933 Monitor Valley, 8 mi. E Toquima Mtn. (Peak), 7100 ft., Nye Co, Nevada: put up a specimen taken by Ole Lilleland, a femal containing 5 embryo. 3 were in the right and 2 in the left horn and were about 6mm in length. The specimen's skull was crushed by a trap.

July 26, 1933 Quinn Canyon Mtns., Burned Corral Canyon, 6700 ft., Nye Co., Nevada: Caught a specimen (♀) about 10 feet from the creek. It was caught befor 10:p.m. as it had suffered a heavy shower and no rain fell after 10:p.m.

Arnold-1933

Cony

Ochotona princeps nevadensis

July 5, 1933 Toquima Range, sw slope Jefferson Peak, 8700 ft., Nye Co., Nevada; as a member of a party of 4 hunted conies from 3-3½ hours along a north branch of Jefferson creek. I saw 4-5 conies and took 2 specimens, one male (Put kept by Dr. Hall) and one female. The female was apparently suckling young. The conies were not common nor yet rare as 4 people took 12 in a short time and all were taken as singles. Two more were taken from one rock slide while Hall took 3 from one slide. S. Durant observed one carrying hay.

July 15, 1933 Monitor Range, Green monster Canyon, 8200 ft., Nye Co., Nevada: in rock slide collected one cony and saw 2 others. A granite slide.

July 16, 1933. Hunted this species from 6-9 A.M. today in same slide that one was collected yesterday. Saw no conies myself although the party took 6. I made the following habitat

Arnold-1933 Ochotona P. nevadensis

July 16, Monitor Range (con) notes while watching the slide. The slide is composed of granite talus and the pieces are flat and vary from 3-8 inches thick and from 8-24 inches in diameter. The rocks were covered with many species of lichens and the slide gave a rusty-brown color to the hillside. The slide rested at a from 30-50 degree angle with the horizontal. Clumps of bushes were scattered over the slide, usually from 40-75 feet apart, but sometimes more or less. These clumps were compound of Mtn. Mahogony (Cercocarpus) Currant (Ribes), Sage brush (Artemisia tridentata:) and rose (Rosa. Beneath these shrubs were a few annuals and clumps of bunch grass. Here and there, beneath the edges of rocks, were small clumps of ~~coking~~ ~~gl~~ grass. (clumps 2-3 inches across). In small crevices moss was found. No droppings a hay was found.

Jack-Rabbit

Arnold-1933 **Lepus c. deserticola**

July 8, 1933 Monitor Valley, 9 mi. E Toquima Peak, 8000 ft., Nye Co, Nevada: jackrabbits are more common here than in other locations visited. I have seen at least 4 adults and 4-8 young within a ¼ mile radius of the camp. Probably many more are present. The adults are exceptionally large. They are not very wild.

July 21, 1933 Quinn Canyon Mtns, Big Creek, 5700 ft., Nye Co, Nevada: saw young jack-rabbit last night. They have not been common at any camp. Nowhere have I seen as many as at Monitor Valley.

Arnold-1933 Sylvilagus n. grangeri

June 29, 1933 Toquima Range, 1½ mi. E Jefferson 7750 ft, Nye Co., Nevada; one specimen of this species was shot among the thick sage brush of a dry gulch. The hillsides were covered with a scattered growth of piñon pines. Abundant sign nearby indicated that it spent some time there. No others were seen. The specimen was a female. Upon arriving at camp, Mrs Davis immediately gutted it to make a blood test thus certain measurements were not taken. The meat was consumed as food.

Pigmy Rabbit

Arnold-1933 — *Sylvilagus idahoensis*

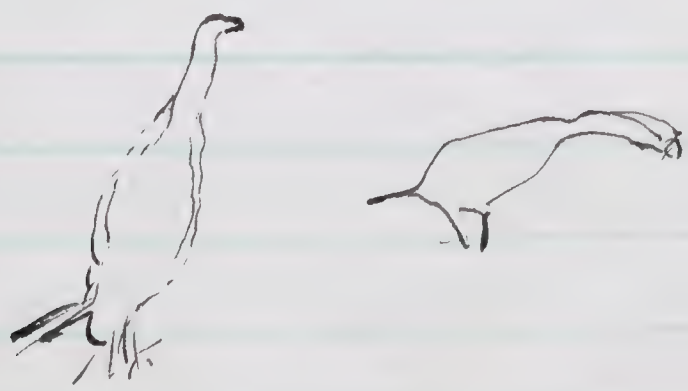
July 6, 1933 — Monitor Valley, 9 miles E Toquima Mtn., 7000 ft., Nye Co., Nevada; saw 4 specimens while riding out to set traps. Attempted to shoot but they reached their holes too soon. Saw much sign and several colonies of holes while setting traps. They seemed to prefer the low open sagebrush to the more ~~open~~ dense clumps.

Sage Hen

Arnold-1933 **Centrocercus urophasianus**

July 11, 1933 Fish Spring Valley, 2 mi. N Fish Lake, 6600 ft., Nye Co., Nevada: took two males beside road. Both were very fat. Dr. Hall collected a male also. No females were seen nearby.

July 16, 1933 ½ mile N. Fish lake: took a few notes on a female + 2 young. The young sage hens ran like quail running nearly erect with head bobbing at every step. The head seemed to be held as erect as possible; the tail was held at an angle, while the typical quail-like run under brush.



Arnold-1933

Nevada Sage Sparrow
Amphispiza nevadensis

July 16, 1933 Fish Spring Valley, Fish Lake, 6500 ft., Nye Co., Nevada: I shot an adult female marsh hawk flying over the tule-set area to the north of the lake. As the hawk lit, dead, this young sage sparrow was found in its talons. Its weight was 11.1 grams; it was nearly fully feathered; it was still warm and had been clutched thru the rump + back, the head + shoulders untouched. no. 191 J. Arnold.

Fox Sparrow
P. iliaca

Arnold-1933

July 5, 1933 Toquima Range, 1 mi. E Jefferson, 7600 ft., Nye Co., Nevada: W. R. Arnold, nos. 123-129 incl. Discovered two fox sparrows giving an alarm by chirping, scratching, calling etc. Shot one adult and upon reaching the fallen bird found it lying upon a watersnake, the latter having a young bird for sparrow in its stomach and a lump a few inches back of the head. A brief search revealed a nest 2½ ft from the ground above these animals. The nest contained 3 young fox sparrows. The snake was easily captured as its mouth was lodged over the young bird. The two adults, snake, and young bird were collected. The adults were preserved as skins and the others as alcoholic specimens.

The nest was built of fibers of bark, about 6 inches over all, and was in the lower branches of an alder about 15 ft from the main stream.

Arnold-1933

Phrynosoma platyrhinus

July 18

Hot Creek Range, 2-10 mi. North Hot Creek, 5900 ft., Nye Co., Nevada: E.R. Hall, O. Lilleland, and myself took 24 of the horned toads in a short time. All were taken within 4 ft. from the road. Some were much larger than others but all seemed the same species. Some were tinged with orange, some with brown and one was a decided yellow-amber. One specimen was deformed & had several horns missing.